

REPORT
OF THE
DEPARTMENT OF HEALTH
OF THE
PANAMA CANAL
FOR THE
MONTH OF JANUARY, 1916

CHAS. F. MASON

Lieut. Colonel, Medical Corps, United States Army
Chief Health Officer, Balboa Heights, Canal Zone

Gift of the Panama Canal Museum

WASHINGTON
1916

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LETTER OF TRANSMITTAL.

THE PANAMA CANAL, CANAL ZONE,
HEALTH DEPARTMENT,
Balboa Heights, February 10, 1916.

Lieut. Col. JAY J. MORROW,
*Acting Governor, the Panama Canal,
Balboa Heights, Canal Zone.*

SIR: I have the honor to submit the following report of the operations of the Department of Health for the month of January, 1916.

Very respectfully,

CHAS. F. MASON,
Chief Health Officer.

GENERAL REMARKS.

No cases of yellow fever, smallpox, or plague originated on or were brought to the Isthmus during the month.

VITAL STATISTICS.

EMPLOYEES.

The health of the employees remained good during the month. The number of names on the rolls for the preceding month was 31,223.

The total number of admissions to hospitals and quarters was 828, a rate of 318.23 per thousand, as compared with 307.23 for the preceding month, and 332.87 for the corresponding month of last year.

The total number of deaths from all causes was 17; of these 13 died from disease, or 4.99 per thousand, as compared with 5.01 for the preceding month, and 4.38 for the corresponding month of last year.

The constantly noneffective rate was 10.34, compared with 10.31 for the preceding month, and 10.11 for the corresponding month of last year.

The total admission rate for malaria, hospitals, and quarters was 18.83, compared with 26.11 for last month, and 56.94 for the corresponding period of last year, and the total noneffective rate 0.71, compared with 0.88 for last month and 1.15 for January, 1915. This is the lowest admission rate for malaria ever attained on the Isthmus; it is less than one-third of the rate for the same month of last year, which in its turn was lower than for any previous January.

Malaria caused 6 per cent of all admissions to hospital and quarters. Seven per cent of the total noneffective rate was caused by malaria.

The diseases next to malaria causing the highest admission rates, in the order of their numerical importance, were venereal diseases, diseases of the nervous system, respiratory system, and digestive system. These five classes of diseases caused 51 per cent of all admissions to hospital.

The admission rate for typhoid fever was 0.38 as compared with 0.36 for last month and 0.00 for the corresponding month of last year.

EFFECTS OF RACE.

The admission rate to hospital, and the death rate for disease for black employees were 131.29 and 5.39 per thousand, as compared with 396.91 and 264 for white employees. The noneffective rate for disease and injuries for black employees per thousand was 8.85, as compared with 19.25 for white employees.

The admission rate to hospitals and quarters for malaria was 13.53 per thousand for blacks, as compared with 50.27 for whites.

The death rate for Americans was 2.81, and the admission rate to hospitals for disease was 206.39. The admission rate for malaria to hospitals and quarters was 42.19 for Americans.

DEPORTATIONS.

There was one deportation accomplished during the month, a non-employee, native of Denmark, charity patient; diagnosis, chronic malaria and uncinariasis.

CANAL ZONE.

The population of the Canal Zone is 31,739, among whom there was a total of 32 deaths; of these, 27 deaths were from disease, giving a rate of 10.20 per thousand, as compared with 13.29 for the preceding month, and 13.72 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 44 as compared with 49 of last month.

There were 61 births reported, giving a rate of 23.06 per thousand. Of these births, 12 were of white and 49 of colored children. There were 7 deaths of children under 1 year of age, all colored, giving an infant mortality of 0.00 for white and 143 for colored children, with a general average of 115. The percentage of stillbirths to total births was 3.28.

PANAMA CITY.

The population of the city is 60,778, among whom there was a total of 144 deaths; of these 140 deaths were from disease, giving a rate of 27.64 per thousand, as compared with 31.01 for the preceding month and 33 for the corresponding month of last year. Of the total deaths from disease, the percentage under 5 years of age was 49, compared with 51 for last month. The principal causes of death showing an increase as compared with December were: Typhoid 4, compared with 1 for the preceding month; diarrhea and enteritis

15, compared with 9 for last month; and organic disease of the heart 5, compared with 4 for the month of December.

There were 165 births, giving a rate of 32.58 per thousand. The percentage of stillbirths to total births was 8 per cent.

COLON.

The population of the city is 24,693, among whom there were 86 deaths; of these 85 deaths were from disease, giving a rate of 41.31 per thousand, as compared with 24.13 for the preceding month and 21.27 for the corresponding month of last year. This is a very large increase in the death rate, but it is probably temporary and accidental, as it is all in the realm of chronic diseases, as is shown below. Of the total deaths from disease the percentage under 5 years of age was 42 per cent compared with 41 per cent for last month.

The principal causes of death showing an increase as compared with December were: Tuberculosis of the lungs 11, as compared with 8 for the preceding month; Bright's disease 12, as compared with 4 for the month of December; lobar pneumonia 7, as compared with 3 for last month; and organic heart disease 6, against 4 in December.

There were 67 births reported, giving a rate of 32.60 per thousand. The infant mortality was 386 per thousand. The percentage of stillbirths to total births was 7.69.

HOSPITAL DIVISION.

ANCON HOSPITAL.

During the month the average number of patients constantly in hospital was 472.69. The per capita cost of patients in hospital proper was \$1.8843 and \$0.9223 net. The net per capita cost of patients in the insane asylum was \$0.4139.

BOARD OF HEALTH LABORATORY.

The following work in addition to routine was performed during the month:

Observations on the eggs and larval stage of the cockroaches of Panama. Rearing of hymenopterous parasites from the eggs of cockroaches with observations on their bionomics. Studies on the larval stage of the horseflies, Tabanidae. Experiments with the hemipterous giant water bug, *Belastoma* sp., with regards to the destruction of mosquito larvae. Continued studies on the screw worm fly, *Cochliomyia desvoidyi*, to determine the effect of high and low temperatures on their life cycle, and experiments conducted to determine the depth necessary to bury the larvae to prevent the emergence of adult flies. Observations on the oviposition of the soldier fly, *Hermetia illucens*. Identification and separation of *Mansonia* and *Wyeomyia* from other genera of Culicidae, because of the difference in their breeding habits as compared with other mosquitoes.

Trypanosoma hippicum, the cause of murrina, has been found in two more horses from Pecora, Republic of Panama.

A chemical examination was made of two specimens of milk which were alleged to have produced sickness, for the purpose of isolating any toxic substance, organic or inorganic. The examination was supplemented with feeding experiments with a monkey. The results were negative.

Six comparisons were made of several proposed methods of determining fat in tissue in order to secure a method of determination of fat in livers in certain conditions found at autopsy.

Out of 5,440 *Anopheles* mosquitoes which were sent to the Laboratory for identification from all parts of the Canal Zone, all were albimanus except 4 pseudo-punctipennis, 6 malefactor, and 2 apicimacula.

Of 6,841 other mosquitoes sent in for identification, 1,702 were *Mansonia* and 81 *Wyeomyia*.

INSANE DEPARTMENT.

During the month there were 14 admissions, 7 discharges, and 4 deaths. Two of the discharges and two admissions represent two cases sent to Ancon Hospital for surgical treatment, and returned to this hospital in same month.

The case of typhoid fever which was reported last month in the person of a female patient who had been in the asylum several months was traced to another female patient in the same ward, who was found to be a temporary carrier. A second case in the same ward early in January was traced to the same carrier. Since the carrier was discovered there have been no new cases.

Work about the grounds has been consistent and steady with the result that the grounds show a gratifying appearance.

Several minor improvements have been established in each ward, such as boxes for soiled linen; and closets for mops, brooms, and scrub rags.

The general physical health of the patients remains good.

FARM.

On the third instant a number of cases of milk poisoning occurred among the persons using bottled milk from the farm dairy. The symptoms were those of gastro-intestinal irritation: most of the cases were among children. The cause of the outbreak is still under investigation.

CHRONIC WARD.

There were 27.26 chronic and incurable patients constantly cared for during the month. The cost per patient per day was \$0.2257. Detailed statistics are shown in Table XIII.

COLON HOSPITAL.

The average number of employees constantly sick was 21.75. The average number of days' treatment per employee was 7.60. The per capita cost of patients was \$2.52 gross and \$1.78 net.

Detailed statistics are shown in Table XIV.

PALO SECO LEPER ASYLUM.

The number of patients under treatment at the end of the month was 57, as compared with 58 for last month.

Detailed statistics are shown in Table XV.

SANTO TOMAS HOSPITAL.

During the month a total of 1,360 patients were treated, 108 less than the preceding month. The daily average of patients in hospital was 438, as compared with 462 for December, and the total number of hospital days was 14,190, as compared with 14,326 for the preceding month. A total of 84 deaths have occurred with tuberculosis, organic disease of the heart, congenital debility, and broncho-pneumonia the chief causes in the order named.

Detailed statistics are shown in Table XVI.

DISTRICT DISPENSARIES.

The dispensary having the highest admission rate for malaria was Pedro Miguel, with an average weekly percentage of 0.15; that having the lowest was Cristobal, with a percentage of 0.01.

Detailed statistics are shown in Table IX.

SANITATION—CANAL ZONE.

The dry season has become fully established, and the work of construction and repair of waterways has been begun in all the districts. Banks of small ponds are being cleared off and ditches cleaned, regraded, and tile is being laid; and ditches which wash badly during the rainy season are being lined with cement. Grass cutting is in progress in all the resident districts and many areas which have hitherto required cutting by scythe are being cleared and graded sufficiently to permit the use of a mowing machine. The progress of these measures will facilitate the work and reduce the cost of maintenance during the next rainy season.

The general health and malarial rate have both been satisfactory during the month, the average weekly percentage of employees excused for malaria being 0.05, as compared with 0.07 for the preceding month.

The following communicable diseases were reported during the month:

Typhoid fever.....	3	Tuberculosis.....	10
Measles.....	7	Whooping cough.....	2
Mumps.....	3	Dysentery.....	2
Diphtheria.....	1		

Detailed statistics are shown in Table XVII.

SANITATION—PANAMA.

The following communicable diseases were reported during the month:

Beriberi.....	1	Tuberculosis, other forms.....	8
Whooping cough.....	3	(All died; 2 not chargeable.)	
Congenital syphilis.....	1	Typhoid fever.....	4
German measles.....	1	(All died; all infants.)	
Measles.....	6	Diphtheria.....	7
Chicken pox.....	10	(1 suspect; 1 not chargeable; 2	
(2 not chargeable.)		deaths.)	
Tuberculosis, pulmonary.....	22		
(19 deaths; 6 not chargeable.)			

Detailed statistics are shown in Table XVII.

SANITATION—COLON.

The following communicable diseases were reported during the month:

Chicken pox.....	1	Whooping cough.....	4
Typhoid fever.....	1	Tuberculosis.....	2
Measles.....	29	Malaria.....	2
Mumps.....	2	Diphtheria.....	2

¹ Positive.

Detailed statistics are shown in Table XVII.

QUARANTINE DIVISION.

On the Atlantic side 37 inspections of sailing vessels were made for the purpose of ascertaining if mosquito-breeding places existed on board in water containers. Three breeding places were found and abated. Sixty-four inspections of vessels alongside were made for the purpose of ascertaining if antiplague regulations were being carried out. The usual quarantine and immigration regulations were enforced.

On the Pacific side at the quarantine reservation suitable signs were installed at the gates of the reservation and on the landing pier. A street lighting system was installed and put into operation by the electrical division. Grass cutting and general cleaning up of the station grounds were completed during the month.

Plague conditions on the South American coast have not improved, and for the last two weeks of December the report from Guayaquil, Ecuador, gives a total of 82 cases reported, with 19 deaths. Yellow fever is also prevalent in this port, this being the time of seasonal recurrence.

Yellow fever is epidemic in Buenaventura and vicinity, and is reported particularly in the town of Caldas, which lies about midway between Buenaventura and Cali, being approximately 80 kilometers from each town. We understand that the people from the interior coming down to the coast for embarkation are now brought down in special trains during the daytime, and spend practically very little time in Buenaventura or the yellow-fever area.

A considerable increase in the number of stowaways from southern ports has been noted, probably due to lack of vigilance of ships' officers in making search prior to departure from their various ports. During the month three stowaways escaped from the quarantine station and have not been apprehended. One cabin passenger also escaped during the night of January 25, was arrested by the police the following morning, and was later sentenced in the Balboa magistrate's court to a fine of \$25 and to serve a sentence of 20 days in prison. He appealed to the district court and was released on \$125 cash bond.

No quarantinable diseases were received at our ports during the month.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES; DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE.

ABSOLUTE NUMBERS.

Color.	Number of employees.	Admissions to hospitals.			Deaths.			Noneffective from sickness.	
		Total.	Disease.	External causes.	Total.	Disease.	External causes.	Days treated.	Constantly noneffective.
<i>January, 1916.</i>									
White.....	4,535	150	114	36	1	1	.....	2,708	87.34
Colored....	26,688	292	201	91	16	12	4	7,333	236.56
Total ..	31,223	442	315	127	17	13	4	10,041	323.90
<i>December, 1915.</i>									
White.....	4,523	107	85	22	1	1	.....	2,568	82.83
Colored....	29,028	327	254	73	16	13	3	8,150	262.90
Total ..	33,551	434	339	95	17	14	3	10,718	345.73
<i>January, 1915.</i>									
White.....	4,903	183	155	28	2	2	.....	3,057	98.62
Colored....	30,715	423	327	96	15	11	4	8,107	261.50
Total ..	35,618	606	482	124	17	13	4	11,164	360.12

TABLE 1.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES; DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE—Continued.

PROPORTIONATE NUMBERS.¹

Color.	Number of employees.	Admissions to hospitals.			Deaths.			Noneffective from sickness.	
		Total.	Disease.	Ex-ternal causes.	Total.	Disease.	Ex-ternal causes.	Days treated.	Con-stantly nonef-fective.
<i>January, 1916.</i>									
White.....	4,535	396.91	301.65	95.26	2.64	2.64	.....	.....	19.25
Colored...	26,688	131.29	90.37	40.92	7.19	5.39	1.80	.....	8.85
Total ..	31,223	169.88	121.06	48.81	6.53	4.99	1.54	.....	10.34
<i>December, 1915.</i>									
White.....	4,523	283.88	225.51	58.37	2.65	2.65	.....	.....	18.31
Colored...	29,038	135.18	105.00	30.18	6.61	5.37	1.24	.....	9.05
Total ..	33,551	155.22	121.25	33.97	6.08	5.01	1.07	.....	10.31
<i>January, 1915.</i>									
White.....	4,903	447.89	379.36	68.53	4.89	4.89	.....	.....	20.11
Colored...	30,715	165.25	127.75	37.50	5.86	4.30	1.56	.....	8.51
Total ..	35,618	204.17	162.39	41.78	5.73	4.38	1.35	.....	10.11

Place.	Popula- tion.	Deaths.			Annual average per 1,000.		
		Total.	Disease.	External causes.	Total.	Disease.	External causes.
<i>January, 1916.</i>							
Panama.....	60,778	144	140	4	28.43	27.64	0.79
Colon.....	24,693	86	85	1	41.79	41.31	.48
Canal Zone.....	31,739	32	27	5	12.09	10.20	1.89
Total.....	117,210	262	252	10	26.82	25.80	1.02
<i>December, 1915.</i>							
Panama.....	60,373	161	156	5	32.00	31.01	.99
Colon.....	29,331	60	59	1	24.54	24.13	.41
Canal Zone.....	31,598	38	35	3	14.43	13.29	1.14
Total.....	121,302	259	250	9	25.62	24.73	.89
<i>January, 1915.</i>							
Panama.....	60,373	169	166	3	33.59	33.00	.59
Colon.....	29,331	56	52	4	22.91	21.27	1.64
Canal Zone.....	31,480	39	36	3	14.87	13.72	1.15
Total.....	121,184	264	254	10	26.14	25.15	.99

¹ Annual average per 1,000.

TABLE II.—DEATHS BY AGE, COLOR, AND SEX.

Age.	White.			Colored.			Yellow.			Total.		
	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.
Under 1 year.....	4	1	5	50	33	83	.....	.....	.....	54	34	88
1 to 4 years.....	1	.....	1	16	17	33	.....	.....	.....	17	17	34
5 to 10 years.....	1	.....	1	1	2	3	.....	.....	.....	2	2	4
11 to 20 years.....	.....	.....	.....	5	1	6	.....	.....	.....	5	1	6
21 to 30 years.....	1	1	2	26	17	43	.....	1	1	27	19	46
31 to 40 years.....	7	.....	7	17	13	30	.....	.....	.....	24	13	37
41 to 50 years.....	1	.....	1	11	8	19	.....	.....	.....	12	8	20
51 to 60 years.....	.....	.....	.....	8	6	14	1	.....	1	9	6	15
61 to 70 years.....	.....	1	1	3	1	4	1	.....	1	4	2	6
71 to 80 years.....	.....	.....	.....	1	2	3	.....	.....	.....	1	2	3
81 to 90 years.....	.....	.....	.....	1	1	2	.....	.....	.....	1	1	2
Not stated.....	.....	.....	.....	.....	.....	.....	1	.....	1	1	.....	1
Total.....	15	3	18	139	101	240	3	1	4	157	105	262

TABLE III.—DEATHS BY NATIONALITY.

Nations.	Employees.	Nonem- ployees.	Total.
Antigua.....	.....	3	3
Barbados.....	3	42	45
China.....	.....	4	4
Colombia.....	.....	12	12
Costa Rica.....	.....	1	1
Curazao.....	.....	1	1
Demerara.....	1	1	2
Dominica.....	.....	1	1
Grenada.....	.....	3	3
Guadeloupe.....	1	1	2
Honduras (Spanish).....	1	.....	1
Haiti.....	.....	1	1
Italy.....	.....	1	1
Jamaica.....	6	80	86
Martinique.....	.....	6	6
Peru.....	.....	2	2
Panama.....	2	72	74
Philippines.....	.....	1	1
Spain.....	.....	3	3
St. Lucia.....	.....	2	2
St. Vincent.....	2	2	4
Trinidad.....	.....	2	2
United States.....	1	3	4
Unknown.....	.....	1	1
Total.....	17	245	262

TABLE IV.—DEATH RATE AMONG AMERICANS ON THE ISTHMS CONNECTED WITH THE PANAMA CANAL.

	Number of deaths.	Annual average per 1,000.
White employees from the United States (4,269):		
Disease.....	1	2.81
External causes.....		
All causes.....	1	2.81
White women and children from the United States (3,522):		
Disease.....	1	3.41
External causes.....		
All causes.....	1	3.41
White employees and their families from the United States (7,791):		
Disease.....	2	3.08
External causes.....		
All causes.....	2	3.08
Total number of Americans on the Canal Zone (15,356):		
Disease.....	3	2.34
External causes.....	1	.78
All causes.....	4	3.12

TABLE V.—CAUSES OF DEATHS OF EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD COMPANY.

Causes of death.	White.	Colored.	Total.
<i>Disease.</i>			
Chronic nephritis.....		2	2
Disseminated tuberculosis.....		1	1
Lobar pneumonia.....		1	1
Cardio renal disease.....		1	1
Acute miliary tuberculosis.....		1	1
General peritonitis.....	1		1
Acute endocarditis.....		1	1
Tuberculosis of the lungs.....		1	1
Dysentery, bacillary.....		1	1
Typhoid fever.....		1	1
Organic disease of the heart.....		1	1
Cerebral hemorrhage.....		1	1
<i>External causes.</i>			
Accidental drowning.....		2	2
Dynamite traumatism.....		1	1
Accidental traumatism, quarry.....		1	1
Total.....	1	16	17

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES AND NONEMPLOYEES) AND MILITARY AND PLACES WHERE CHARGEABLE

Diseases.	Pana- ma.	Colon.	Canal Zone.	Total.
<i>General diseases.</i>				
Typhoid fever.....	4	1	.....	5
Malaria fever, cachexia.....	.....	1	.....	1
Whooping cough.....	.....	1	.....	1
Diphtheria and croup.....	1	1	.....	2
Dysentery.....	1	.....	.....	1
Dysentery, bacillary.....	.....	2	.....	2
Tetanus.....	1	.....	.....	1
Pellagra.....	1	1	1	3
Beriberi.....	.....	1	.....	1
Tuberculosis of the lungs.....	14	11	1	26
Acute miliary tuberculosis.....	3	.....	.....	3
Tuberculosis meningitis.....	1	1	.....	2
Abdominal tuberculosis.....	1	1	.....	1
Disseminated tuberculosis.....	8	1	.....	9
Syphilis, period not stated.....	.....	1	.....	1
Cancer and other malignant tumors of the buccal cavity.....	3	.....	.....	3
Diabetes.....	.....	1	.....	1
Anemia, primary, pernicious.....	1	.....	.....	1
Other general diseases.....	1	.....	.....	1
Alcoholism, acute.....	1	.....	.....	1
<i>Diseases of the nervous system and of the organs of special sense.</i>				
Simple meningitis.....	2	.....	.....	2
Pneumococcus meningitis.....	.....	.....	1	1
Cerebral hemorrhage, apoplexy.....	1	1	2	4
Paralysis without specified cause.....	1	.....	.....	1
Epilepsy.....	.....	1	.....	1
Convulsions (nonpuerperal) (5 years and over).....	.....	.....	1	1
Convulsions of infants (under 5 years of age).....	.....	1	1	2
<i>Diseases of the circulatory system.</i>				
Acute endocarditis.....	2	.....	.....	2
Organic diseases of the heart.....	5	6	3	14
Arteriosclerosis.....	1	.....	.....	1
Hemorrhage; other diseases of the circulatory system.....	1	.....	.....	1
<i>Diseases of the respiratory system.</i>				
Acute bronchitis.....	7	3	.....	10
Chronic bronchitis.....	1	2	.....	3
Bronchopneumonia.....	11	3	2	16
Pneumonia (unqualified).....	4	1	.....	5
Lobar pneumonia.....	3	7	1	11
Pleurisy.....	1	.....	.....	1
Asthma.....	1	.....	.....	1
Pulmonary emphysema.....	1	.....	.....	1

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES AND NONEMPLOYEES) AND MILITARY AND PLACES WHERE CHARGEABLE—Continued.

Diseases.	Pana- ma.	Colon.	Canal Zone.	Total.
<i>Diseases of the digestive system.</i>				
Diseases of the mouth and annexa	1			1
Acute indigestion.....		2		2
Diarrhea and enteritis (under 2 years).....	15	4		19
Colitis.....	7	2		9
Hernia, intestinal obstructions.....			1	1
Intestinal obstruction.....			1	1
Cirrhosis of the liver.....	1		1	2
Simple peritonitis (nonpuerperal).....	2	1		3
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>				
Acute nephritis.....		2		2
Bright's disease (chronic nephritis).....	7	12	2	21
Other diseases of the kidney and annexa.....		2		2
Diseases of the urethra, urinary abscess. etc.....			1	1
<i>The puerperal state.</i>				
Accidents of pregnancy.....		1		1
Abortion.....			1	1
Puerperal hemorrhage.....	1			1
Puerperal albuminuria and convulsions.....	1			1
Eclampsia.....	1			1
Following childbirth (not otherwise defined).....			1	1
<i>Diseases of the skin and cellular tissue.</i>				
Gangrene.....		1		1
<i>Malformations.</i>				
Congenital malformations (stillbirth not in- cluded).....			1	1
<i>Diseases of early infancy.</i>				
Newborn child.....			2	2
Congenital debility, icterus, and sclerema.....		1		1
Premature birth.....	6	1	1	8
Congenital debility.....	3			3
Malnutrition.....	3	4	1	8
Other causes peculiar to early infancy (including various consequences of labor).....	1	1	1	3
<i>Affections produced by external causes.</i>				
Suicide by poisoning.....		1		1
Burns (conflagration excepted).....	1			1
Accidental drowning.....			2	2
Traumatism by firearms.....	1			1
Traumatism by fall.....			1	1
Traumatism by machines.....	1			1
Dynamite traumatism.....			2	2
Homicide by firearms.....	1			1

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES AND NONEMPLOYEES) AND MILITARY AND PLACES WHERE CHARGEABLE—Continued.

Diseases.	Pana- ma.	Colon.	Canal Zone.	Total.
<i>Ill-defined diseases.</i>				
Ill-defined organic disease.....	1	.....	.....	1
Cause of death not specified or ill defined	7	2	.....	9
Infections of undetermined origin.....	.....	1	.....	1
Total.....	144	86	32	262
Stillbirths.....	13	6	2	21
Grand total.....	157	92	34	283

TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN

Diseases.	Ancon Hospital.										
	Employees.						Nonemployees.				
	Admissions.			Deaths.			Admissions.			Deaths.	
	White.			White.			White.			White.	
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.
<i>General diseases.</i>											
Typhoid fever.....			1			1					
Malaria.....											
Malarial fever:											
Estivoautumnal.....	3	3	18				11	3	4		
Tertian.....	1	1	2				3	1			
Clinical.....	2		9				7	2	1		
Vaccinia.....								1			
Measles.....	1		9					1	9		
Diphtheria and croup.....							1	2	3		
Influenza.....	2		5				1	2			
Dysentery.....											
Entamoebic.....		1					1				
Bacillary.....						1					1
Erysipelas.....			1								
Chicken pox.....			1						1		
Mumps.....			3				2	2	2		
Malta fever.....							1				
Pellagra.....									1		1
Beriberi.....											
Tuberculosis of the lungs.....			3			1	1	2	5		1
Acute miliary tuberculosis.....						1			1		1
Abdominal tuberculosis.....			1					1			1
Tuberculosis of the lymph glands.....							1		2		
Disseminated tuberculosis.....						2					1
Syphilis:											
Secondary.....			2				6	1	2		
Tertiary.....		1	13						5		
Hereditary.....			2								
Period not stated.....			3						1		
Gonococcus infection.....											
Gonorrhea.....	1	2	8				9	1	2		
Gonorrheal arthritis.....		1	1					1			
Gonorrheal bubo.....							1				
Gonorrheal orchitis and epididymitis.....			3				1				
Soft chancre.....	1		7				14	2	1		
Adenitis chancreoidal.....			1				4				
Cancer and other malignant tumors of the female genital organs.....									1		
Other tumors (tumors of the female genital organs excepted).....	2						2	1			

TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN

Diseases.	Ancon Hospital.										
	Employees.						Nonemployees.				
	Admissions.			Deaths.			Admissions.			Deaths.	
	White.			White.			White.			White.	
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.
<i>General diseases—Contd.</i>											
Acute articular rheumatism											
Chronic rheumatism and gout			1								
Diabetes							1				
Exophthalmic goiter							1				
Anemia, chlorosis									1		
Anemia secondary, cause not determined							1	1			
Alcoholism, acute	2						3	1			
Alcoholism, chronic							1				
<i>Diseases of the nervous system and of the organs of special sense.</i>											
Pneumococcus meningitis									1		1
Cerebral hemorrhage, apoplexy							1	1			1
Softening of the brain								1			1
Paralysis without specified cause									1		
General paralysis of the insane							1				
Other forms of mental alienation							1	5			
Neuritis			3				3				
Other diseases of the nervous system	1		2				2	1			
Neurasthenia	2						5	1	1		
Diseases of the eyes and their annexa	6		7				6	2	4		
Diseases of the ears	2		5				2	1			
<i>Diseases of the circulatory system.</i>											
Organic diseases of the heart	2								1		1
Diseases of the arteries, atheroma, aneurysm, etc.											
Aneurysm											
Arteriosclerosis											
Diseases of the veins (varices, hemorrhoids, phlebitis, etc.)							1				

TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN

[illegible]

TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Diseases of the digestive system—Continued.</i>												
Acute appendicitis.....	2						2					
Chronic appendicitis.....	1						1	2				
Hernia, intestinal obstructions.....									1			1
Inguinal hernia.....	1	1	7				4	1	1			
Other hernias.....	2											
Intestinal obstruction.....							1					1
Other diseases of the intestines.....	2		3				5	6	2			
Constipation.....	1						5	2	2			
Duodenal ulcer.....								1			1	
Cirrhosis of the liver.....								2			1	
Biliary calculi.....								1				
Other diseases of the liver.....			1									
Cholecystitis.....								4				
Diseases of the spleen.....												
Simple peritonitis (non-puerperal).....	1			1								
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>												
Bright's disease (chronic nephritis).....	1		4			2		1	5			1
Other diseases of the kidney and annexa.....							1	3				
Pyelo-nephrosis.....									2			
Calculi of the urinary passages.....	2						1					
Diseases of the bladder.....			1									
Cystitis.....			1					1				
Diseases of the urethra, urinary abscess, etc.....	1		1					1				1
Chronic prostatitis.....		1						1				
Nonvenereal diseases of the male genital organs.....			4				1					
Hydrocele.....												
Uterine hemorrhage (non-puerperal).....									2			
Uterine tumor (noncancerous).....			1					3				
Other diseases of the uterus.....								5	5			

THE HOSPITALS OF THE PANAMA CANAL—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admissions.			Deaths.			Admissions.			Deaths.			Admissions.			Deaths.			Admissions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
1							4					3						2	4				
												1						1	2				
													1	7				4	1	1			1
												2											
																		1					1
1							1					3		3				5	6	3			
							1					1						5	2	3			
																		1				1	
																		2				1	
													1					1				1	
							1											4					
																		1					
												1											
		1					1			1		1		5			2		1	6			2
	1												1					1	3				
																			2				
							1					2						1	1				
													1										
													1					1					
												1		1				1					1
													1					1					
							1							4				1	1				
							1																
																			2				
							3						1					3	3				
						1												6	5				

TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Nonvenereal diseases of the genito-urinary system and annexa—Continued.</i>												
Metritis.....								5	1			
Cysts and other tumors of the ovary.....								1				
Salpingitis and other diseases of the female genital organs.....								1	5			
<i>The puerperal state.</i>												
Normal labor.....								17	1			
Accidents of pregnancy.....								1				1
Extra-uterine pregnancy.....								1	1			
Abortion.....								3	1			
Puerperal hemorrhage.....		1							1			1
Other accidents of labor.....								1	1			
Puerperal septicemia.....												
<i>Diseases of the skin and of the cellular tissue.</i>												
Furuncle.....	1											
Carbuncle.....								1				
Acute abscess.....	1		3					1	2			
Phlegmon and cellulitis.....	1	1					2	2	1			
Elephantiasis.....			2									
Dhobie itch.....	1						3	1	2			
Ulcer of the skin.....							1					
Ingrowing nail.....	3						3	1				
Other diseases of the skin and annexa.....			1				4	1	1			
<i>Diseases of the bones and of the organs of locomotion.</i>												
Diseases of the bones (tuberculosis excepted).....	1						1	2				
Mastoid abscess.....								1				
Arthritis.....		1	2				1					
Amputations.....												
Other diseases of the organs of locomotion.....		1					4	3	1			

THE HOSPITALS OF THE PANAMA CANAL—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
																		5	1				
																		1					
																		1	5				
																		19	3				
							2	2										2	1				1
							1											1	1				
							2											5	1				
												1						1	1				1
							1			1								1	1				
																		1			1		
2												3											
												1						1					
							1					1	1					2	2	1			
													2										
												1						3	1	2			
							1					1						1	1				
												3						3	1				
							1						1					4	2	1			
												1						1	2				
													1					1		1			
		2						1					2										
													2										
1												1	1					4	3	1			

TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Malformations.</i>												
Congenital malformations (stillbirth not included) ..							1		1			1
<i>Diseases of early infancy.</i>												
Newborn child							16	3				
Malnutrition							2	2				1
<i>Affections produced by external causes.</i>												
Poisoning by food			1					3				
Other acute poisonings								1				
Snake bites			1									
Burns (conflagration excepted)		1	2					3	1			
Traumatism:												
By firearms												
By cutting or piercing instruments		1	5				3	1	3			
By fall			9				3	2	3	1		
In mines and quarries ..			1									
By machines		1	4									
By other crushings (vehicles, railroads, land-slides, etc.)	3	2	12									
Railroad traumatism			4									
Dynamite traumatism			2			1						
Traumatism by landslides ..			3									
Injuries by animals							1					
Fractures (cause not specified)	2		3				1		1			
Dislocations	2						1					
Sprains	2		3									
Other external violence	5	5	15				3	3				
<i>Ill-defined diseases.</i>												
Cause of death not specified or ill-defined								1			1	
Infections of undetermined origin	1		1					4				1
No disease	5	1	2				4	17	7			
Total	85	28	237	1		9	173	198	141	1	4	20

THE HOSPITALS OF THE PANAMA CANAL—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admissions.			Deaths.			Admissions.			Deaths.			Admissions.			Deaths.			Admissions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
																		1			1		1
							2	1										18	4				1
																	2	2					
							1						1					3	2				
													1										
		2					1						4					4	1				
							1											1					
2		5					1					2	1	10				3	1	4			
1	4	1					2					1	4	10				3	2	5	1		
	1	1										2	1	5									
		9										3	2	21									
														4									
														2									
														3									
1	1	6										3	1	9				1		1			
	1	1										2						1					
1		1										2	1	4				3	3				
												6	5	16									
																		1			1		
2							1					3		1				5					1
							1	1				5	1	2				4	18	8			
26	11	55			1	3	34	37	1	1	3	111	39	292	1		10	176	232	178	2	5	23

TABLE VIII.—CONSOLIDATED

	Remaining Jan. 1.			Admitted.			Died.		
	A. ¹	F. ¹	B. ¹	A.	F.	B.	A.	F.	B.
ANCON HOSPITAL.									
Panama Canal employees.....	18	7	117	74	28	155	1	....	4
Panama Railroad employees.....	5	1	75	11	....	81	....	....	4
Panama pay patients.....	....	....	1	....	....	1	....	....	....
Other pay patients.....	93	18	48	263	75	103	2	2	13
Charity patients.....	9	4	41	19	8	29	....	1	4
Total.....	125	30	282	367	112	369	3	3	25
<i>Insane department.</i>									
Panama Canal employees.....	....	5	10	....	....	1	....	....	....
Panama Railroad employees.....	....	....	3	....	....	....	....	....	....
Panama pay patients.....	....	18	165	....	3	6	....	....	4
Other pay patients.....	8	1	5	1	1	2	....	....	....
Charity patients.....	4	4	45	....	....	....	....	....	....
Total.....	12	28	228	1	4	9	....	....	4
Grand total.....	137	58	510	368	116	378	3	3	29
<i>Corozal farm.</i>									
Panama Canal employees.....	....	11	45	....	....	....	....	....	....
<i>Chronic Ward.</i>									
Charity patients.....	....	....	26	....	....	2	....	....	....
COLON HOSPITAL.									
Panama Canal employees.....	1	....	5	14	10	25	....	....	....
Panama Railroad employees.....	....	1	10	12	1	30	....	....	1
Panama pay patients.....	....	....	1	2	3	16	....	....	2
Other pay patients.....	6	5	5	17	11	14	1	1	....
Charity patients.....	3	....	1	1	3	7	....	....	1
Total.....	10	6	22	46	28	92	1	1	4
PALO SECO LEPER ASYLUM.									
Panama pay patients.....	....	3	35	....	....	1	....	....	2
Charity patients.....	....	2	18	....	....	....	....	....	....
Total.....	....	5	53	....	....	1	....	....	2
GRAND TOTAL.									
Panama Canal employees.....	19	23	177	88	38	181	1	....	4
Panama Railroad employees.....	5	2	88	23	1	111	....	....	5
Panama pay patients.....	....	21	202	2	7	24	....	....	8
Other pay patients.....	107	24	58	281	87	119	3	3	13
Charity patients.....	16	10	131	20	11	38	....	1	5
Total.....	147	80	656	414	144	473	4	4	35

¹ A=white Americans; F=white foreigners; B=blacks.

HOSPITAL REPORT.

Discharged.			Transferred.			Remaining Jan. 31.			Average number constantly sick.			
									White.		Black.	Total.
A.	F.	B.	A.	F.	B.	A.	F.	B.	Ameri- can.	Foreign.		
72	21	140	.....	.....	1	19	14	126	24.20	13.30	117.09	154.59
13	.....	78	.....	.....	1	3	1	74	5.45	1.00	70.00	76.45
.....	.....	.....	.....	1	1	.....	.....	1	.....	.16	1.71	1.87
243	46	86	1	1	.....	110	44	52	107.81	39.35	50.36	187.55
16	5	31	.....	.....	.....	12	6	35	9.63	5.60	37.00	52.23
344	72	335	1	2	3	144	65	288	147.12	49.41	276.16	472.69
.....	.....	.....	.....	.....	.....	.....	5	11	.....	5.00	7.64	12.64
.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	3.00	3.00
.....	.....	2	.....	.....	2	.....	21	163	.....	19.38	167.26	186.64
.....	.....	2	.....	.....	.....	9	2	5	9.00	1.10	4.30	14.40
.....	.....	1	.....	.....	.....	4	4	44	4.00	4.00	44.39	52.39
.....	.....	5	.....	.....	2	13	32	226	13.00	29.48	226.59	269.07
344	72	340	1	2	5	157	97	514	160.12	78.89	502.75	741.76
.....	.....	3	.....	.....	.....	.....	11	42	.....	11.00	42.40	53.40
.....	.....	1	.....	.....	.....	.....	.....	27	.....	.....	27.26	27.26
12	5	16	2	2	5	1	3	9	1.67	2.03	7.93	11.63
5	1	17	4	.....	14	3	1	8	1.61	1.22	7.29	10.12
.....	.....	4	2	3	11	.....	.....	.....	.06	.09	1.12	1.27
16	8	14	2	4	.....	4	3	5	5.61	3.64	4.67	13.92
4	3	2	.....	.....	5	.....	.....	.....	.77	.74	.35	1.86
37	17	53	10	9	35	8	7	22	9.72	7.72	21.36	38.80
.....	.....	.....	.....	.....	.....	.....	3	34	.....	3.00	34.80	37.80
.....	.....	.....	.....	.....	.....	.....	2	18	.....	2.00	18.00	20.00
.....	.....	.....	.....	.....	.....	.....	5	52	.....	5.00	52.80	57.80
84	26	159	2	2	6	20	33	188	25.87	31.33	175.06	232.26
18	1	95	4	.....	15	6	2	85	7.06	2.22	80.29	89.57
.....	.....	6	2	4	14	.....	24	98	.06	22.63	204.89	227.58
259	54	102	3	5	.....	123	49	62	122.45	34.09	59.33	215.87
20	8	35	.....	.....	5	16	12	124	14.40	12.34	127.00	153.74
381	89	397	11	11	40	165	120	657	169.84	102.61	646.57	919.02

Number of employees remaining in hospitals: *

White..... 61

Colored..... 273

Total..... 334

TABLE IX.—CONSOLIDATED DISPENSARY REPORT.

EMPLOYEES TREATED IN QUARTERS.

	Re- main- ing Jan. 1.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Re- main- ing Jan. 31.		Days lost.		
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	Total.
Ancon.....	5	.....	123	.....	.....	.....	124	.....	1	.....	3	.....	353	.....	353
Balboa.....	3	6	85	45	.....	.....	76	29	6	17	6	5	252	146	398
Pedro Miguel	2	.....	14	.....	.....	.....	13	.....	1	.....	2	.....	39	.....	39
Paraiso.....	1	2	19	11	.....	.....	17	12	3	1	.....	.....	45	31	76
Gamboa.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gatun.....	1	2	14	3	.....	.....	15	4	.....	1	.....	.....	53	32	85
Colon.....	2	11	92	38	.....	.....	86	31	.....	.....	8	18	246	523	769
Total..	14	21	347	97	.....	.....	331	76	11	19	19	23	988	732	1,720

ALL CASES TREATED, BUT NOT EXCUSED.

	Employees.			Nonemployees.			Total.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
Ancon.....	2,469	4,082	6,551	1,790	2,124	3,914	4,259	6,206	10,465
Balboa.....	3,308	3,717	7,025	717	786	1,503	4,025	4,503	8,528
Pedro Miguel	812	1,086	1,898	738	412	1,150	1,550	1,498	3,048
Paraiso.....	991	2,938	3,929	413	689	1,102	1,404	3,627	5,031
Gamboa.....	30	67	97	6	326	332	36	393	429
Gatun.....	511	1,899	2,410	1,362	1,435	2,797	1,873	3,334	5,207
Colon.....	832	2,409	3,241	734	919	1,653	1,566	3,328	4,894
Total..	8,953	16,198	25,151	5,760	6,691	12,451	14,713	22,889	37,602

CONSOLIDATED ADMISSIONS REPORT.

	White.	Colored.	Total.
Total admissions to hospitals, excluding Corozal farm and chronic ward.....	558	471	1,029
Total admissions of employees to quarters.....	347	97	444
Total.....	905	568	1,473
Less number of patients transferred between hospitals, and from quarters to hospitals, whose admissions are duplicated in above figures.....	32	59	91
Net admissions to hospitals and quarters.....	873	509	1,382
Net admissions of employees to hospitals and quarters.....	479	349	828
Annual average per thousand of admissions of employees to hospitals and quarters.....	1,249.83	156.17	318.23

TABLE IX.—CONSOLIDATED DISPENSARY REPORT—Continued.
CONTAGIOUS AND INFECTIOUS DISEASES REPORTED.

Diseases.	Pan-ama.	Colon.	Canal Zone.	Total.
Measles.....	7	29	7	43
Typhoid fever.....	4	1	3	8
Annual average per 1,000.....	.79	.49	1.17	.82
Mumps.....		2	3	5
Chicken pox.....	10	1		11
Diphtheria.....	7	2	1	10
Beriberi.....	1			1
Malarial fever.....		2	71	73
Tuberculosis.....	30	2	10	42
Whooping cough.....	3	4	2	9
Dysentery.....	2		2	4

TABLE X.—NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS AND QUARTERS.

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital.....	48.95	197.73	246.68
Colon Hospital.....	6.53	15.22	21.75
Total.....	55.48	212.95	268.43
Quarters:			
Ancon.....	11.38		11.38
Balboa.....	8.13	4.71	12.84
Pedro Miguel.....	1.26		1.26
Paraiso.....	1.45	1.00	2.45
Gatun.....	1.71	1.03	2.74
Colon.....	7.93	16.87	24.80
Total.....	31.86	23.61	55.47

	Hospitals.	Quarters.	Total.
Average number of employees constantly sick:			
White.....	55.48	31.86	87.34
Colored.....	212.95	23.61	236.56
Total.....	268.43	55.47	323.90
Average number of employees constantly sick per 1,000:			
White.....	12.23	7.02	19.25
Colored.....	7.97	.88	8.85
Total.....	20.20	7.90	28.10

TABLE XI.—AVERAGE LENGTH OF STAY IN HOSPITALS OR QUARTERS FOR EACH ADMISSION OF SICK EMPLOYEE.

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital.....	11.26	24.31	19.55
Colon Hospital.....	4.97	9.15	7.60
Quarters:			
Ancon.....	2.94	.....	2.94
Balboa.....	3.17	4.43	3.60
Pedro Miguel.....	3.14	.....	3.14
Paraiso.....	2.25	4.54	2.91
Gatun.....	3.60	6.80	4.40
Colon.....	3.14	24.19	8.71

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH.

Administration.	December, 1915.	November, 1915.	December, 1914.
Chief health officer.....	\$754.92	\$399.31	\$717.74
Hospital division:			
Ancon Hospital.....	26,607.08	24,654.26	37,883.44
Board of health laboratory.....	2,198.09	1,275.89	.....
Corozal farm.....	5,769.10	6,475.76	1,141.28
Chronic ward.....	210.61	215.99	269.02
Colon Hospital.....	4,057.35	3,785.58	3,269.14
Palo Seco Leper Asylum.....	1,884.81	1,125.30	1,425.55
Santo Tomas Hospital.....	1,119.60	1,223.66	820.00
Medical storehouse.....	1,044.67	1,153.70	664.66
Total.....	42,891.31	39,910.14	46,190.83
District dentists.....	3.38	3.33	.....
Dispensaries:			
Naos Island.....	.....	.....	47.67
Balboa.....	1,140.00	1,167.51	929.16
Corozal.....	10.30	466.41	846.37
Pedro Miguel.....	531.98	458.42	429.14
Paraiso.....	624.72	661.72	571.54
Culebra.....	.....	.....	282.48
Gamboia.....	157.89	140.16	120.08
Gatun.....	648.92	706.16	493.64
Toto Point.....	23.21	.....	67.67
Margarita Point.....	.....	.....	113.38
Total.....	3,140.40	3,633.71	3,901.13
Sanitary division:			
General inspector.....	50.00	50.00	50.00
Health office, Panama.....	4,059.53	4,002.50	2,902.52
Street cleaning.....	4,193.04	4,287.88	4,619.70
Health office, Colon.....	3,280.86	3,940.36	4,168.72
Street cleaning.....	2,253.96	2,057.50	1,803.07

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH—
Continued.

Administration.	December, 1915.	November, 1915.	December, 1914.
Zone sanitation:			
Ancon.....	\$1,695.21	\$1,726.58	\$1,980.37
Balboa.....	1,028.44	1,560.94	974.68
Corozal.....	1,317.32	1,373.92	1,610.67
Pedro Miguel.....	2,567.74	2,871.18	959.80
Paraiso.....			785.97
Culebra.....			846.42
Frijoles.....	100.65	103.06	123.23
Gatun.....	2,771.14	3,452.82	1,547.21
Cristobal and Mount Hope.....	2,212.06	2,618.00	1,613.61
Total.....	25,529.95	28,044.74	23,885.97
Quarantine division:			
Chief quarantine office.....	158.08	382.40	.....
Balboa-Panama.....	1,661.15	2,128.02	.....
Colon-Cristobal.....	2,883.72	3,343.94	.....
Total.....	4,702.95	5,854.36	4,512.32
RECAPITULATION.			
Chief health officer.....	754.92	399.31	717.74
Hospital division.....	42,891.31	39,910.14	46,190.83
Dispensaries.....	3,140.40	3,633.71	3,901.13
Sanitary division.....	25,529.95	28,044.74	23,885.97
Quarantine division.....	4,702.95	5,854.36	4,512.32
	77,019.53	77,842.26	79,207.99

December, 1915, last available figures.

TABLE XIII.—ANCON HOSPITAL.
REPORT OF NATIONALITY OF PATIENTS TREATED.

	Total number treated.	American.		Other nations.	
		White.	Black.	White.	Black.
Hospital:					
Panama Canal employees.....	399	91	1	35	272
Panama Railroad employees.....	173	16	.....	1	156
Panama government pay patients.....	3	.....	.....	1	2
Other pay patients.....	600	356	.....	93	151
Charity patients.....	110	28	.....	12	70
Total.....	1,285	491	1	142	651
Asylum:					
Panama Canal employees.....	16	.....	.....	5	11
Panama Railroad employees.....	3	.....	.....	.....	3
Panama government pay patients.....	192	.....	.....	21	171
Other pay patients.....	18	8	.....	3	7
Charity patients.....	53	4	.....	4	45
Total.....	282	12	.....	33	237
Grand total.....	1,567	503	1	175	888
Soldiers.....	247	247	.....	.....	.....
Chronics.....	26	.....	.....	.....	26
Corozal farm (cripples).....	53	.....	.....	11	42

REPORT OF DAYS LOST IN HOSPITAL.

	Total.	Ameri- can.	Other white.	Black.
Hospital:				
Panama canal employees.....	4,787	750	412	3,625
Panama Railroad employees.....	2,376	169	31	2,176
Panama government pay patients.....	58	.....	5	53
Other pay patients.....	5,814	3,346	907	1,561
Charity patients.....	1,619	299	174	1,146
Total.....	14,654	4,564	1,529	8,561
Asylum:				
Panama Canal employees.....	392	.....	155	237
Panama Railroad employees.....	93	.....	.....	93
Panama government pay patients.....	5,786	.....	601	5,185
Other pay patients.....	446	271	35	140
Charity patients.....	1,624	124	124	1,376
Total.....	8,341	395	915	7,031
Grand total.....	22,995	4,959	2,444	15,592
Soldiers.....	2,784	2,784	.....	.....
Chronics.....	845	.....	.....	845
Corozal farm (cripples).....	1,655	.....	341	1,314

Average cost of subsistence per patient day, \$0.2269.

WARD LABORATORY REPORT.

Blood examinations, total number.....	448
Estivo-autumnal.....	45
Tertian.....	7
Differential counts.....	33
Hemoglobin estimations.....	96
Leukocyte counts.....	112
Red-blood counts.....	1
Stool examinations, total number.....	566
Ameba.....	3
Ascaris lumbricoides.....	13
Cercomonas intestinalis.....	5
Ciliated monads.....	11
Entameba (hystolitica and tetragena).....	2
Guaiac tests.....	21
Pus and blood.....	64
Strongyloides.....	10
Trichocephalus dispar.....	33
Uncinaria (ova).....	37
Urine examinations, total number.....	1,777
Albumen.....	441
Bile.....	12
Casts.....	422
Ciliated monads.....	1
Epithelia.....	448
Benzidine tests.....	3
Guaiac tests.....	31
Acetone.....	22
Indicon.....	118
Pus and blood.....	551
Sugar (positive, 7; negative, 19).....	26
Trichomonas vaginalis.....	2
Sputum examinations, total number.....	238
Positive for tubercle bacilli.....	23
Smear examinations, total number.....	16
Urethral.....	13
Vaginal.....	2
Spinal fluid.....	3
Eye.....	2

REPORT OF SURGICAL OPERATIONS.

	Number.	Died.
Amputations:		
Arm.....	1	1
Leg.....	1	.....
Foot.....	1	.....
Digits, multiple.....	1	.....
Operations on bones:		
Craniectomy, decompressive.....	1	1
Ostelectomy.....	1	.....
Wiring of fractures, simple.....	2	.....
Adenectomy:		
Cervical.....	2	.....
Inguinal, single.....	15	.....
Femoral.....	1	.....
Herniotomy:		
Inguinal, single.....	9	.....
Inguinal, double.....	1	.....
Ventral.....	1	.....

REPORT OF SURGICAL OPERATIONS—Continued.

	Number.	Died.
Genito-urinary tract:		
Urethrotomy, external.....	3	.....
Hydrocele, single, radical cure.....	1	.....
Epididymotomy.....	4	.....
Amputation of scrotum.....	2	.....
Amputation of penis.....	1	.....
Curetage uteri.....	10	.....
Trachelorrhaphy.....	3	.....
Obstetrical:		
Accouchement force.....	1	1
Low forceps.....	1	.....
Thorax:		
Thoracotomy.....	1	.....
Rectum:		
Hemorrhoids, radical cure.....	4	.....
Fistula in anus, excision of.....	1	.....
General:		
Thyroidectomy.....	1	.....
Tenorrhaphy.....	2	.....
Myorrhaphy.....	1	.....
Excision of surface neoplasms.....	1	.....
Plastic operation for severe injuries.....	2	.....
Laparotomy:		
For general peritonitis.....	1	1
For tuberculous peritonitis.....	1	1
For intestinal obstruction.....	1	.....
For partial gastrectomy.....	1	.....
Gastro-enterostomy.....	3	.....
Enterectomy.....	1	1
Appendectomy.....	8	.....
Appendectomy with local peritonitis.....	1	.....
Cholecystectomy.....	1	.....
Pan-hysterectomy.....	1	.....
Supravaginal hysterectomy.....	5	1
Salpingo-oophorectomy.....	4	.....
Suspensio-uteri.....	5	.....
Major operations (various other).....	5	.....
Minor operations (various).....	112	.....
Total.....	226	7

REPORT OF OPERATIONS, EYE AND EAR DEPARTMENT.

Adeneidectomy.....	8
Submucous.....	3
Tonsillectomy.....	23
Mastoidectomy, simple, both sides.....	1
Iridectomy.....	1
Pterygium (excision).....	5
Minor:	
Nose.....	2
Eye clinic.....	5
Throat.....	3
	10
Total.....	51
Refractions.....	125

REPORT OF OUT-PATIENT DEPARTMENT.

Clinic.	Total visits.	New cases.	Pay cases.	Prescriptions.
Medical.....	328	238	81	326
Surgical.....	258	165	27	43
Eye and ear.....	623	252	24	360
Total.....	1,209	655	132	729

MONTHLY REPORT OF VACCINATIONS.

Number of adults vaccinated.....	268
Number of "takes".....	14
Number of school children vaccinated.....	1
Total vaccinations.....	269
Number of "takes".....	14

REPORT OF BOARD OF HEALTH LABORATORY.

Bacteriological examinations of—	
Blood cultures.....	18
Throat cultures.....	81
Cultures, miscellaneous.....	5
Urines.....	43
Stools.....	22
Sputum.....	6
Pathological fluids, exudates, etc.....	10
Wassermann reactions.....	617
Autopsy cultures.....	3
Agglutination reactions.....	4
Autogenous vaccines prepared.....	1
Typhoid vaccines prepared..... c. c.	400
Blood for malaria.....	1
Ice cream from Panama.....	5
Dairy milk from Panama.....	2
Dairy milk from Corozal farm.....	69
Milk sediments.....	55
Miscellaneous examinations.....	2
Dark field illuminations.....	3
Chemical analysis of—	
Milk from private dairies supplying cities of Panama and Colon.....	19
Milk for deleterious substances.....	1
Mother's milk.....	6
Urines.....	40
Acid, carbolic, crude.....	1
Alcohol, ethyl.....	1
Blood, for fat.....	1
Calculus, urinary.....	1
Ice cream.....	5
Solution of protargol.....	1
Flour.....	1
Surgical tissues neoplasms reported.....	37
Autopsies performed.....	28
Animals autopsied.....	13
Animals inoculated.....	4
Pathological tissues prepared, paraffin.....	537
Rats examined:	
<i>Mus musculus</i>	463
<i>Mus norvegicus</i>	274
<i>Mus alexandrinus</i>	21
<i>Mus rattus</i>	179
	937
Bodies embalmed.....	4
Interments at Corozal.....	25
Interments at Mount Hope.....	1
Cremations.....	18

COROZAL HOSPITAL.

STATEMENT OF COMMITMENTS, DISCHARGES, AND DEATHS, JANUARY, 1916.

	Male.	Female.
Commitments:		
From Canal Zone, first admission.....	4	
From Panama Government, first admission.....	3	4
From Colon (private pay), first admission.....	1	
From Panama Government (retransfer from Ancon Hospital).....	1 2	
Total.....	10	4

	Well.		Improved.		Unimproved.	
	Male.	Female.	Male.	Female.	Male.	Female.
Discharges:						
Antigua.....		1				
Barbados.....		1	1			
Jamaica.....				1		
Panama.....				1	2 2	
Total.....		2	1	2	2 2	

Medical diagnosis.	Mental diagnosis.	Deaths.	
		Male.	Female.
Tuberculosis of lungs and alimentary tract; scurvy; diffuse edema of brain.	General paralysis of the insane.		1
Abdominal tuberculosis; syphilis.	Cerebrospinal syphilis	1	
Chronic bronchitis; pan-sinusitis; arteriosclerosis.	Arteriosclerotic brain disease.		1
Softening of the brain; gangrene of the lungs.	Idiocy.....		1

¹ Had been transferred to Ancon Hospital for surgical treatment.² Transferred to Ancon Hospital for surgical treatment.

TABLE XIV.—COLON HOSPITAL.

NATIONALITY OF PATIENTS.

	White American.	White foreign.	Black.	Total.
Panama Canal employees.....	15	10	30	55
Panama Railroad employees....	12	2	40	54
Panama pay.....	2	3	17	22
Other pay.....	23	16	19	58
Charity cases.....	4	3	8	15
Total.....	56	34	114	204

Cost of subsistence per patient per day, \$0.33.

LABORATORY REPORT.

Blood examinations.....	54
Estivo-autumnal.....	3
Tertian.....	1
Red blood counts.....	4
White blood counts.....	12
Hemoglobin.....	3
Differential counts.....	2
Smears.....	30
Stool examinations.....	23
Amoeba.....	1
Pus.....	7
Blood.....	6
Mucous.....	1
Negative.....	8
Urine examinations.....	125
Albumen.....	36
Casts.....	18
Epithelia.....	21
Pus.....	20
Blood.....	18
Indican.....	2
Sugar.....	2
Bile.....	2
Urea crystals.....	2
Calcium oxalates.....	2
Triple phosphates.....	2
Sputum examinations.....	5
Positive for tubercle bacilli.....	1
Pus.....	1
Pneumococci.....	2
Diphtheria (negative).....	1
Smear examinations.....	5
Gonorrhea.....	2
Pus.....	2
Negative.....	1

SURGICAL OPERATIONS.

Herniotomy:	
Inguinal, single.....	2
Genito-urinary tract:	
Hydrocele, single, radical cure.....	1
Orchidectomy.....	1
Epididymotomy.....	1
Curetage uteri.....	3
Obstetrical:	
Perineorrhaphy.....	2
Thorax:	
Thoracotomy.....	1
Rectum:	
Prolapsus rectum, radical excision.....	1
General:	
Tenorrhaphy.....	1
Excision of surface neoplasms.....	1
Gunshot wound of soft parts, operation for.....	2
Stab wound of soft parts, operation for.....	2
Extensive injuries to soft parts, operation for.....	2
Laparotomy:	
Appendectomy.....	7
Pan-hysterectomy.....	2
Minor operations, various.....	10
Minor operations, various (dispensary).....	140

TABLE XV.—PALO SECO LEPER ASYLUM.

NATIONALITY OF PATIENTS.

Class.	Number treated.		Americans.		Others.	
	White.	Black.	White.	Black.	White.	Black.
Panama Canal employees.....	0	0	0	0	0	0
Panama Railroad employees....	0	0	0	0	0	0
Pay cases.....	3	35	0	0	3	35
Charity cases.....	2	18	0	0	2	18
Total.....	5	53	0	0	5	53

Cost of subsistence, per patient, per day, 23 cents.

TABLE XVI.—SANTO TOMAS HOSPITAL.

Class.	Remain- ing Jan. 1.	Ad- mitted.	Dis- charged.	Died.	Remain- ing Jan. 31.
Pay cases.....	40	83	91	3	29
Charity cases.....	411	826	731	81	421
Total.....	451	909	826	84	450

Average number of patients constantly sick.....	438
Total number of days treatment.....	14,190
Average number of days treatment.....	10
Cost of subsistence, per patient, per day.....	\$0.39

NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		White.	Colored.	White.	Colored.
Pay cases.....	123	4	4	38	77
Charity cases.....	1,237	0	0	146	1,091
Total.....	1,360	4	4	184	1,168

DISPENSARY REPORT.

Class.	White.	Colored.	Total.
Natives.....	24	698	722
Foreigners.....	53	489	542
Total.....	77	1,187	1,264

DISEASES TREATED.

Typhoid.....	2
Malaria.....	93
Measles.....	1
Whooping cough.....	1
Diphtheria and croup.....	2
Dysentery.....	6
Leprosy.....	1
Erysipelas.....	1
Other epidemic diseases.....	3
Purulent infections and septicæmia.....	10
Tetanus.....	1
Pellagra.....	2
Beriberi.....	4
Tuberculosis of the lungs.....	23
Tuberculosis of other organs.....	4
Syphilis.....	36
Soft chancre.....	4
Gonococcus infection.....	46
Cancer and other malignant tumors of the buccal cavity.....	1
Acute articular rheumatism.....	2
Anæmia, chlorosis.....	1
Alcoholism (acute or chronic).....	18
Locomotor ataxia.....	1
Other diseases of the spinal cord.....	1
Cerebral hemorrhage.....	1
Paralysis without specified cause.....	2
Other forms of mental alienation.....	5
Epilepsy.....	1
Convulsions (nonpuerperal).....	3
Hysteria.....	2
Neuralgia and neuritis.....	4
Other diseases of the nervous system.....	5
Follicular conjunctivitis.....	2
Other diseases of the eye and their annexa.....	11
Diseases of the ear.....	2
Chronic diseases of the heart.....	30
Diseases of the arteries.....	1
Diseases of the veins.....	7
Diseases of the lymphatic system.....	25
Chronic bronchitis.....	20
Broncho-pneumonia.....	13
Pneumonia.....	7
Pleurisy.....	1
Asthma.....	6
Diseases of the pharynx.....	7
Other diseases of the stomach.....	4
Diarrhea and enteritis (under 2 years).....	6
Diarrhea and enteritis (2 years and over).....	9
Ankylostomiasis.....	50
Appendicitis and typhlitis.....	10
Hernias, intestinal obstructions.....	10
Disease of the anus and fecal fistula.....	1
Other diseases of the intestines.....	3
Simple peritonitis (nonpuerperal).....	1
Bright's disease.....	16
Diseases of the bladder.....	5
Diseases of the urethra.....	4
Nonvenereal diseases of the male genital organs.....	7
Uterine tumor (noncancerous).....	2
Metritis.....	5
Salpingitis, etc.....	15
Nonpuerperal diseases of the breast (cancer excepted).....	3
Normal labor.....	91
Accidents of pregnancy.....	11
Puerperal septicæmia.....	1
Furuncle.....	1
Acute abscess.....	15
Other diseases of the skin and annexa.....	43

Diseases of the bones.....	2
Diseases of the joints (tuberculosis excepted).....	10
Congenital malformations (stillbirth not included).....	5
Nursling discharge from hospital without diseases.....	84
Scabies.....	7
Other acute poisoning.....	3
Burns (conflagration excepted).....	3
Traumatism by firearms.....	4
Traumatism by cutting or piercing instruments.....	5
Traumatism by other crushings.....	1
Injuries by animals.....	1
Sprains.....	2
Other external violence.....	3
No disease.....	39
Total.....	910

SURGICAL OPERATIONS.

	Number.	Died.
Craniotomy, decompressive.....	1	
Ostectomy.....	2	
Resection of ankle.....	1	
Lane plate.....	2	
Adenectomy, inguinal, single.....	5	
Adenectomy, inguinal, double.....	2	
Herniotomy, inguinal, single.....	7	1
Herniotomy, inguinal, double.....	2	
Herniotomy, femoral.....	1	
Herniotomy, ventral.....	2	
Nephropexy.....	1	
Urethrotomy, internal.....	3	1
Urethrotomy, external.....	1	1
Hydrocele, single, radical cure.....	3	
Orchidectomy.....	3	
Epididymotomy.....	1	
Curetage uteri.....	2	
Perineoplasty.....	1	
Hemorrhoids, radical cure.....	9	
Excision of surface neoplasm.....	3	
Plastic operation for effects of disease.....	19	
Skin graft.....	4	
Appendectomy.....	5	
Appendectomy with local peritonitis.....	5	
Supravaginal hysterectomy.....	3	
Salpingectomy, double.....	1	
Salpingo-oophorectomy.....	6	
Ovarian cystotomy.....	1	1
Suspensio-uteri.....	2	
Gunshot wound of abdomen.....	1	
Minor operations, various.....	44	2
Totals.....	143	6

TABLE XVII.—SANITATION.

The following is a summary of sanitary work performed and material expended during the month of January, 1916, in the Canal Zone:

Work requests on supply department:	
Grass cutting.....	18
Screening.....	11
Miscellaneous.....	9
Work requests on engineering department.....	24

Work requests on other departments.....	4
Notices served to abate nuisances.....	3
Building permits approved.....	1
Inspections of closets.....	861
Inspections of stores.....	45
Inspections of shops.....	81
Garbage cans emptied.....	97,857
Closets disinfected.....	1,342
Rat traps in use.....	425
Adult anopheles caught.....	7,740
Adult culices caught.....	6,785
Adult stegomyia caught.....	211
Containers with stegomyia larvæ found.....	2
Larvacide used..... gallons.....	753
Crude oil used..... do.....	9,058
Kerosene used..... do.....	283
Rats destroyed.....	374

SUMMARY OF ROUTINE WORK DONE BY PANAMA HEALTH OFFICE.

Mosquito, rat, and fly work:	
Ditches cleaned and maintained..... linear feet.....	17,353
New ditches dug..... do.....	0
Number of cubic yards of earth used in filling.....	0
Larvacide used..... gallons.....	507
Crude oil used..... do.....	3,967
Pools oiled..... square yards.....	494,230
Water containers treated.....	9,222
Mosquito breeding places found (Stegomyia 117).....	233
Fly breeding places found.....	116
Flies trapped (13,000 per quart)..... quarts.....	8
Number of rats trapped.....	505
Number of room disinfections made.....	7
Garbage collection:	
Number of loads garbage removed to dump.....	5,758
Garbage removed to dump..... cubic yards.....	9,892
Total number of cans garbage emptied.....	40,920
Buildings:	
Number of buildings inspected.....	5,212
Number of plans for new buildings approved.....	26
Number of permits issued for repairs to old buildings.....	119
Total number of building permits issued.....	145
Number of buildings condemned.....	6
Number of buildings demolished (stables, 4).....	9
Number of stables condemned.....	0
Street cleaning:	
Average number of square yards cleaned daily.....	600,000
Average number of square yards sprinkled daily.....	90,000
Number of private properties cleaned.....	5
Number of notices served and nuisances abated.....	397
Vaccinations:	
Number of vaccinations during month.....	0
Total number of vaccinations since Apr. 1, 1914.....	23,244

MONTHLY WORK REPORT FOR COLON AND CRISTOBAL AND MOUNT HOPE.

[Health Office, Colon-Cristobal, Jan. 31, 1916.]

Sanitation, Colon, general:	
Streets cleaned..... square yards.....	4,045,752
Streets sprinkled..... do.....	722,400
Alleys maintained..... do.....	676,000
Streets oiled..... do.....	17,313
Private properties cleaned.....	761
Fumigated..... cubic feet.....	8,768
Quinine issued..... doses.....	12,546
Rats caught.....	202
Loads of yard garbage disposed of.....	653
Cans of garbage (2,335 cubic yards).....	67,615
Colon dump maintained.....	

Sanitation, Colon, general—Continued.

Ditches maintained.....	linear yards.....	2, 474
Vegetation removed, Colon.....	acres.....	2
Vegetation removed, Quarantine Station.....	do.....	4
Vegetation removed, Panama Railroad properties.....	do.....	30
Parkway and E. St. maintained.....		
Square yards oiled.....		54, 585
Receptacles treated.....		46, 820
Mosquito-breeding places destroyed.....		2
Fly-breeding places destroyed.....		70
Buildings inspected.....		9, 580
Larvacide used in Colon.....	gallons.....	313
Crude oil used in Colon.....	do.....	378
Crude oil used for streets.....	do.....	6, 250
Nuisances abated.....		323
Building, Colon:		
Plans approved.....		17
Permits issued.....		20
Permits to repair issued.....		82
Bills collected.....		188
Colon, Sewers:		
New connections made during the month.....		18
Total number of connections made to date.....		1, 244
Houses in which extensions were made.....		3
Outstanding permits.....		91
Sanitation, Cristobal:		
Cans of garbage (773 cubic yards).....		14, 180
Loads of yard garbage handled.....		181
Square yards oiled.....		5, 375
Receptacles treated.....		9, 050
Mosquito-breeding places destroyed.....		3
Fly-breeding places destroyed.....		10
Crude oil used.....	gallons.....	42
Larvacide used.....	do.....	22
Buildings inspected.....		1, 140
Nuisances abated.....		34
Sanitation, Mount Hope:		
Cans of garbage (185 cubic yards).....		1, 860
Square yards oiled.....		46, 800
Receptacles treated.....		8, 630
Mosquito-breeding places destroyed.....		47
Mosquitoes caught in barracks—		
Anopheles.....		82
Culex.....		351
Mosquitoes caught in cars and quarters (village)—		
Anopheles.....		2
Culex.....		351
Larvacide used.....	gallons.....	318
Crude oil used.....	do.....	840
Mount Hope Cemetery maintained.....		
Ditches maintained.....	linear yards.....	4, 472
Vegetation removed.....	square yards.....	196, 587
Number of burials during the month.....		72

TABLE XVIII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL.

Vessels inspected and passed.....	128
Vessels held in quarantine.....	12
Total number of vessels entered.....	140
Special inspections made to enforce compliance with antiplague and mosquito-breeding regulations.....	101
Vessels fumigated on arrival.....	11
Vessels fumigated on departure.....	0
Crew examined.....	8, 499
Passengers examined.....	3, 142
	11, 641

Supplementary inspections.....	1,539
Stowaways.....	15
Persons vaccinated at ports of arrival because of compulsory vaccination law.....	410
Persons vaccinated at ports of departure or en route because of compulsory vaccination law.....	451
<u>Total number of persons vaccinated.....</u>	<u>861</u>
Persons held in quarantine at the detention houses to complete period of incubation of yellow fever and plague.....	451
Persons held in quarantine on board vessels to complete period of incubation of yellow fever and plague.....	1,478
<u>Total persons held under observation.....</u>	<u>1,929</u>
Total persons landed from foreign ports:	
Cabin.....	1,609
Steerage.....	921
<u>.....</u>	<u>2,530</u>
Total persons embarked for foreign ports:	
Cabin.....	1,131
Steerage.....	1,151
<u>.....</u>	<u>2,282</u>
Total persons arriving from coast towns on small launches and sailing craft.....	1,792
Total persons sailing for coast towns on small launches and sailing craft.....	1,574
<u>Apparent increase for month from coast towns.....</u>	<u>218</u>
Apparent increase for month from foreign ports:	
Cabin (increase).....	478
Steerage (decrease).....	230
<u>Net increase for month.....</u>	<u>248</u>
Persons rejected and deported.....	13
Bills of health issued or viséed.....	108
Inspections of docks.....	26
Inspections of vessels at docks.....	187
Total persons landed.....	4,322
Less for Pacific ports.....	210
<u>Total persons sailing.....</u>	<u>4,112</u>
<u>Total apparent increase for month.....</u>	<u>256</u>

IMMIGRATION REPORT FOR COLON.

From—	Cabin.	Steerage.
Europe.....	13	16
United States.....	677	13
Jamaica and West Indies.....	85	203
Venezuela.....	13	8
Colombia.....	85	136
Cuba.....	59	10
Costa Rica.....	182	20
Bocas del Toro.....	51	72
Coast towns.....	.....	224
<u>Total.....</u>	<u>1,165</u>	<u>702</u>
<u>Grand total.....</u>	<u>1,867</u>	
Men.....		900
Women.....		458
Children.....		144
United States troops.....		141
Unclassified.....		224
		<u>1,867</u>

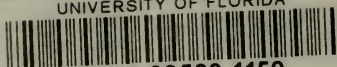
TABLE XIX.—STATEMENT OF QUININE ISSUED.

	Kilos.
Quinine sulphate.....	7.15
Quinine sulphate tablets.....	0.00
Total.....	7.15
Pounds avoirdupois.....	15.73

TABLE XX.—PERSONNEL REPORT.

	January, 1916.			Total, Decem- ber, 1915.	Total, January, 1915.
	Officers and em- ployees.	Skilled and un- skilled labor.	Total.		
Chief health office.....	4	.....	4	4	3
Medical storehouse.....	5	3	8	8	8
Quarantine division.....	19	24	43	38	42
Health office, Panama.....	24	144	168	173	148
Health office, Colon.....	17	147	164	171	113
Ancon Hospital.....	239	111	340	350	348
Colon Hospital.....	26	13	39	39	34
Santos Tomas Hospital.....	5	.....	5	5	5
Palo Seco Leper Asylum.....	10	12	22	27	22
Zone sanitation.....	16	100	116	140	100
Hospital farm.....	2	52	54	55	40
Dispensaries:					
Balboa.....	6	.....	6	6	7
Corozal.....	.....	.....	.....	.....	4
Culebra.....	.....	.....	.....	.....	3
Empire.....	.....	.....	.....	.....	.....
Gamboa.....	1	.....	1	1	1
Gatun.....	5	.....	5	5	3
Margarita Point.....	1
Naos Island.....	1
Paraiso.....	4	4	4	3
Pedro Miguel.....	3	3	3	3
Total.....	375	607	982	1,030	889

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